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TITLE : BIAXIALLY ORIENTED ALIPHATIC POLYESTER-BASED FILM AND ITS PRODUCTION

ABSTRACT : PROBLEM TO BE SOLVED: To obtain the subject film having excellent slipperiness, restrained from film meandering and occurrence of wrinkles and maintained in e.g. firmness, mechanical strength and low-heat shrinkability by including inorganic particles in a specific aliphatic polyester and bringing the average roughness of the film surface within a specific range.

SOLUTION: This film is obtained by including (B) preferably 0.01-120 pts.wt. of inorganic particles each with a mean particle size of preferably 0.1-5 μm (e.g. silica) in (A) 100 pts.wt. of an aliphatic polyester composed mainly of a polylactic acid-based polymer with a weight-average molecular weight of preferably 100,000-300,000, and by designing the average roughness Ra of the film surface to satisfy the relationship: $0.01 < \text{Ra} \leq 0.08$. The proportion for L- lactic acid and D-lactic acid composing the polylactic acid-based polymer in the component A is preferably (100:0) to (94:6) or (6:94) to (0:100). This film has a 10-point average roughness Rz of preferably ≤ 2.0 and a coefficient of static friction of preferably ≤ 0.8 .

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